

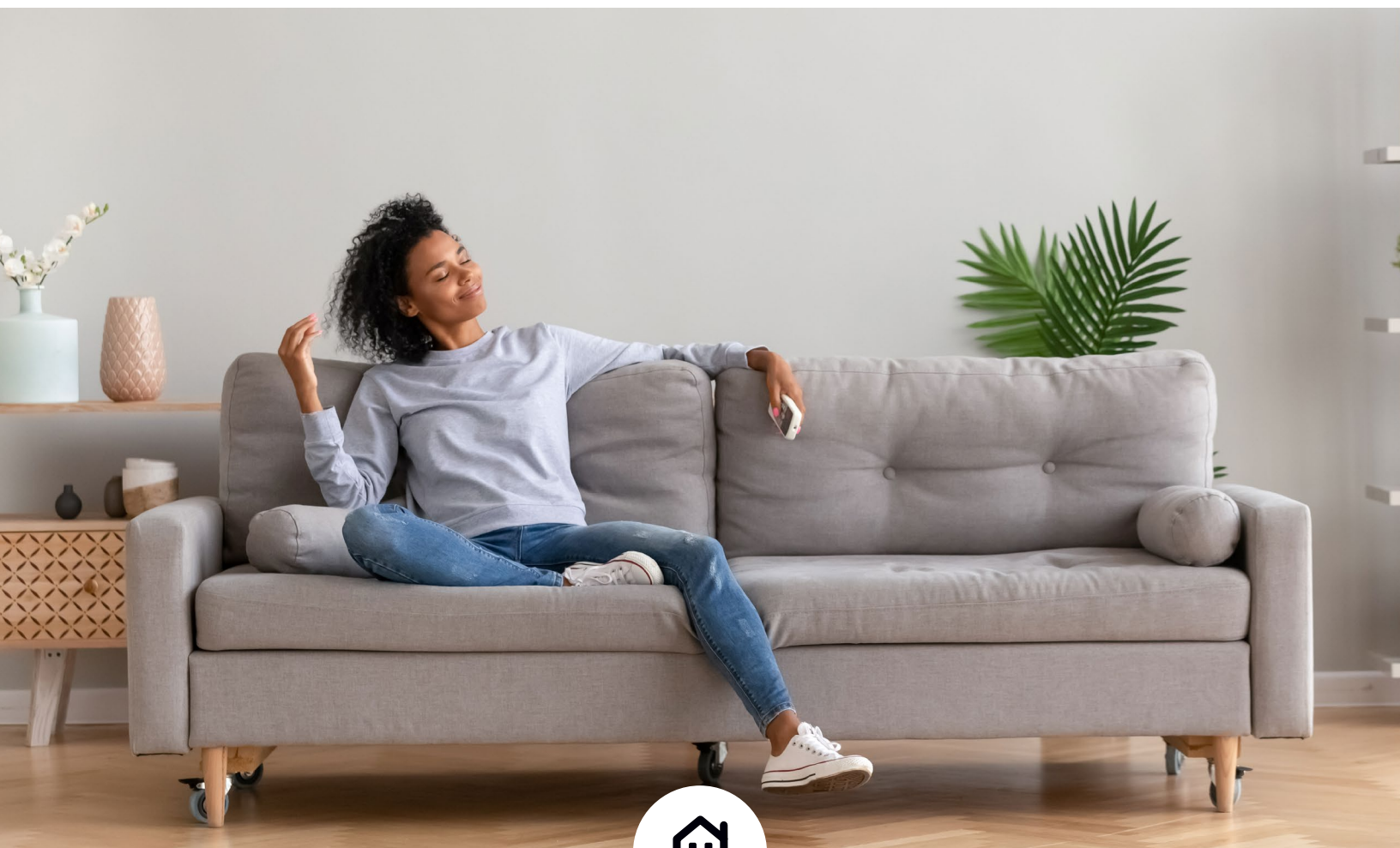


NYS Clean Heat

# Keep Your Home Comfortable All Year Long

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Stay warm in the winter and cool in the summer with energy-efficient electric heat pumps.



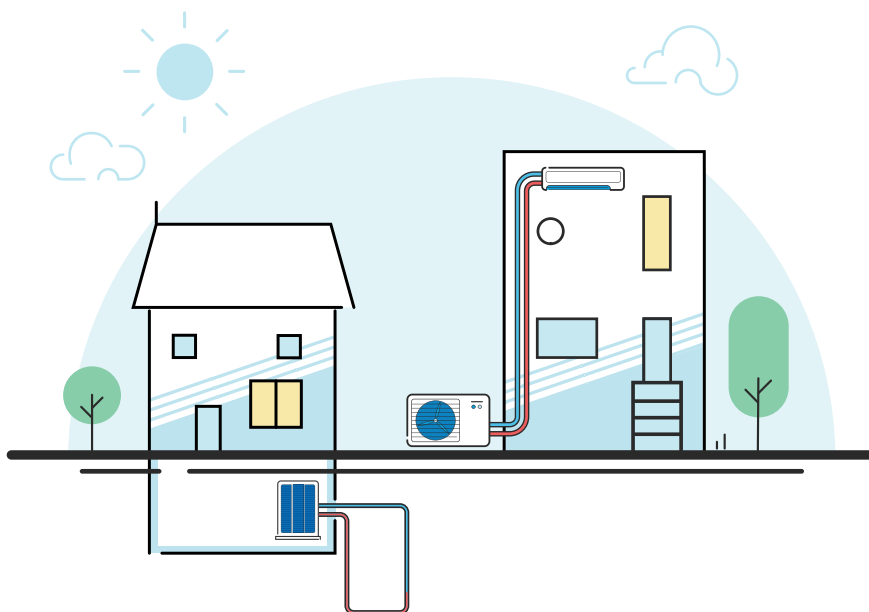
# What is a heat pump?

Heat pumps are the latest in technology to keep your home comfortable year-round. They're environmentally friendly, extremely efficient, and affordable to operate.



# How do heat pumps work?

Heat pumps pull heat from the air or from underground and use it to heat your home in the colder months. They flow in reverse and use a refrigerant to cool your home in the warmer months.



## The benefits of heat pumps

**Efficiency:** Heating your home with a heat pump typically costs less than oil, propane, or electric baseboard heat and is more environmentally conscious.

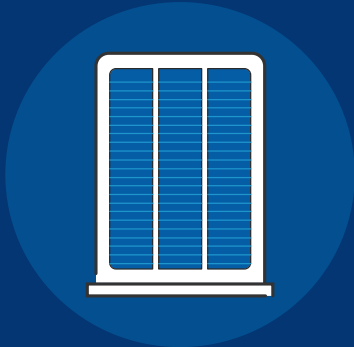
**Dual Heating and Cooling:** In addition to providing heating efficiency, high-performance heat pumps help you save on cooling costs and are substantially more efficient than window A/C units.

**Financial Incentives:** Financial incentives are available to make purchasing and installing heat pump technology even more affordable.

**Interested in learning more?**  
Visit [CleanHeat.ny.gov](http://CleanHeat.ny.gov)

# Which heat pump is right for you?

## Geothermal Heat Pumps



Geothermal heat pumps (or ground source heat pumps) take heat from underground and use it to warm water. That water holds onto the heat until it gets pumped into your home to warm the air. This system is the most efficient type of heat pump, and it's usually used in whole-home applications.

### Best suited for:

Single family homes with lawn space to accommodate geothermal loops

Up to **3X** more efficient than oil-fueled systems

Estimated annual savings of up to **\$1,500\***

\*Efficiency calculated by comparing heating performance of an ENERGY STAR-certified closed loop water-to-air geothermal heat pump to an ENERGY STAR-certified oil furnace.

## Air Source Heat Pumps



Air source heat pumps extract heat from outside air that is then used for heating indoor spaces during the colder months. They can also extract heat from indoors and expel it outside to cool indoor spaces during the warmer months. Air source heat pumps like a ductless mini-split can be used to heat or cool single rooms (partial load) and whole homes (full load).

### Best suited for:

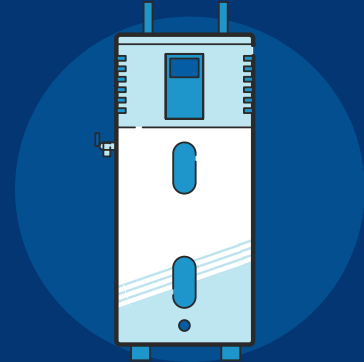
Apartments, additions, or rooms that always seem too hot or too cold, no matter what you do to the thermostat

Up to **50%** more efficient than oil-fueled systems

Estimated annual savings of up to **\$900\*\***

\*\*Efficiency calculated by comparing heating performance of a Northeast Energy Efficiency Partnership (NEEP)-certified air-source heat pumps to an ENERGY STAR-certified oil furnace.

## Heat Pump Water Heaters



Heat pump water heaters extract heat from the air surrounding the unit to heat water. They can replace electric or fossil fuel-powered water heaters that require much more energy to run efficiently—leading to big savings.

### Best suited for:

Residences with basements or separate utility rooms (these units lose efficiency if installed in closets without ample clearance)

Approx. **3X** more efficient than conventional electric resistance water heaters

Estimated annual savings of up to **\$350†**

†When compared to conventional electric unit.

# Full Load vs. Partial Load: What's the difference?

## Full Load

Full-load—or whole-home—heat pumps will do all of the heating and cooling in the home or building. For replacement situations, your existing heating-and-cooling systems are no longer required.

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Responsible for **90-120%** of the heating load

## Partial Load

In partial-load applications, your new heat pump will supplement your existing heating system, as well as cool your home during the warmer months.

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Responsible for **less than 90%** of the heating load

## What is right for your home or project?

### I have existing forced air or radiant heating.

Cutting-edge ground-source geothermal technology can modernize your traditional system and make it more efficient. Or, consider a central or mini-split heat pump that replaces or supplements your existing heating system, while also replacing the air conditioning in its entirety.

### I have an existing duct system.

Consider a central or mini-split heat pump that replaces or supplements your existing heating system, while also replacing the air conditioning in its entirety.

### I have baseboards and/or radiators.

Ductless units may be the right choice for you.

### I only need to heat or cool one room.

A single ductless unit will sufficiently heat and cool your room.

### I'm working on a new construction project.

For a smaller house or apartment, one or two ductless units will heat and cool your space sufficiently. A combination of a compacted ducted system with one or two additional ductless units for bedrooms, etc., would be a good choice. For peak efficiency, consider adding a ground-source geothermal heat pump.

### I'm looking to supplement my current heating system.

If your current heating system is working fine but could use a boost, try adding one or two additional single-zone ductless units.

For more information,  
visit [CleanHeat.ny.gov](http://CleanHeat.ny.gov)



NYS Clean Heat

844-212-7823

## Questions?

Please feel free to reach out to me if you have a question that isn't answered here, or if you'd like to install a new heat pump.

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Contractor name

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Phone number